

**Work Order ID 57212**

March 30, 2010 8:55:10 AM



Page 1

Item ID: D412-702-121B

Accept



Setup Start



Revision ID:

Item Name: Harness Assembly

Stop



Start Date: 30/03/2010 Start Qty: 2.00



Cust Item ID:

Required Date: 30/03/2010 Req'd Qty: 2.00



Customer:

Reference:

Approvals: Process Plan: *✓*  
QC: \_\_\_\_\_Date: *10-3-30*

Tooling: \_\_\_\_\_

Date: \_\_\_\_\_

Run Start



Date: \_\_\_\_\_

SPC (Y/N): \_\_\_\_\_

Date: \_\_\_\_\_

Stop

Sequence ID/  
Work Center IDOperation  
Description

Draw Nbr

Revision Nbr

DSI 9469

A



DC

Document Control

Memo

Set Up/  
Run HoursDraw  
NumberDraw  
Rev.Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

100



Packaging

Packaging

Pick Kit

0.00

Memo

0.00

*N/A KJ*

110



Small Fab

Small Fab

Memo

0.00

0.00

Assemble as per DSI9469

*10-3-30 (2)**10-3-30 (2)*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_  
 Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

# Work Order ID 57212

March 30, 2010 8:55:10 AM



Page 2

Item ID: D412-702-121B

Accept



Setup

Start



Revision ID:

Item Name: Harness Assembly

Stop



Start Date: 30/03/2010 Start Qty: 2.00



Cust Item ID:

Required Date: 30/03/2010 Req'd Qty: 2.00



Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run

Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/  
Work Center ID

120



QC

Quality Control

Operation  
Description

QC5- Inspect part completeness to step on W/O

Set Up/  
Run Hours

0.00

8 10 63 / 30

Draw  
Number

Draw  
Rev.

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

130



Packaging

Packaging

Memo

0.00

50 10-3-30 Q26

Memo

0.00

Identify and pack for shipping as per PPP D412-702-123B / DS1 9469

Location: 274

PPP rev: 146001

140



QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

10/03/30 Q26

Q26 10/3/30

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

# Picklist Print

March 30, 2010 8:55:13 AM

Page 1

Work Order ID: 57212



3

Parent Item: D412-702-121B



Parent Item Name: Harness Assembly

Start Date: 30/03/2010

Required Date: 30/03/2010

Comments:

Start Qty: 2.00

Required Qty: 2.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

D3570-3



Manufactured

No

Each

19.0000

2.0000

Bracket

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
------------------	----------------	-----------------

Location

Main Warehouse

ST245A

19

52885

19

D3579-047



Manufactured

No

Each

8.0000

2.0000

Shoulder Harness

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
------------------	----------------	-----------------

Location

Main Warehouse

ST273

8

55118

2

55682

6

MS24694-S50



Purchased

No

Each

194.0000

8.0000

Screw

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
------------------	----------------	-----------------

Location

Main Warehouse

ST289

194

108936

6

111020

18

113538

170

1113538

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

# Picklist Print

March 30, 2010 8:55:13 AM

Page 2

Work Order ID: 57212



Parent Item: D412-702-121B



Parent Item Name: Harness Assembly

Start Date: 30/03/2010

Required Date: 30/03/2010

Comments:

Start Qty: 2.00

Required Qty: 2.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN960JD10L		Purchased	No				Each	2,885.000	8.0000			

Washer



## Warehouse

### Location

Main Warehouse

ST348	2885
101291	16
105793	49
110985	2820

MS21042L3



Purchased

No

## Loc Qty

## Loc Code

Nut

## Warehouse

### Location

Main Warehouse

ST300	2045
110844	35
111274	27
111668	58
112314	285
113523	17
113537	623
113644	1000

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_  
 Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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March 30, 2010 8:55:13 AM

Page 3

**Work Order ID:** 57212



**Parent Item:** D412-702-121B



**Parent Item Name:** Harness Assembly

**Start Date:** 30/03/2010

**Required Date:** 30/03/2010

### Comments:

**Start Qty:** 2.00

**Required Qty:** 2.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3569-3		Manufactured	No			Each	27.0000	2.0000				

2 193/30 2

### Location

### Main Warehouse

Loc Qty

**Loc Code**

ST245A

55

56.

2

55350

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_  
 Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

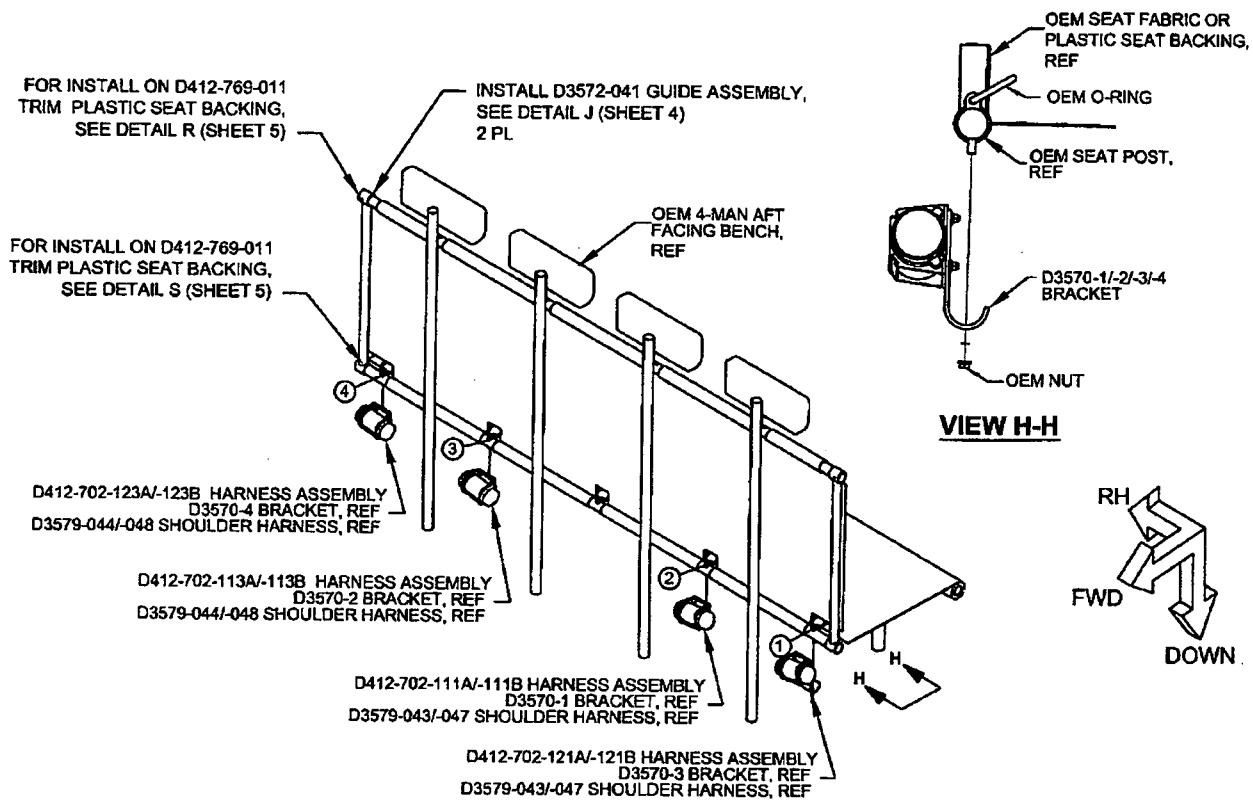
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

SHOP C-1  
REFURBISH  
ENCL. 1  
UNCONTROLLABLE  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 572212

*04/10-330*

Figures 4.8 (pg. 25) of IIN-D412-702 Rev. E and 25.12 (pg. 69) of ICA-D412-702 Rev. 3 are updated as follows:



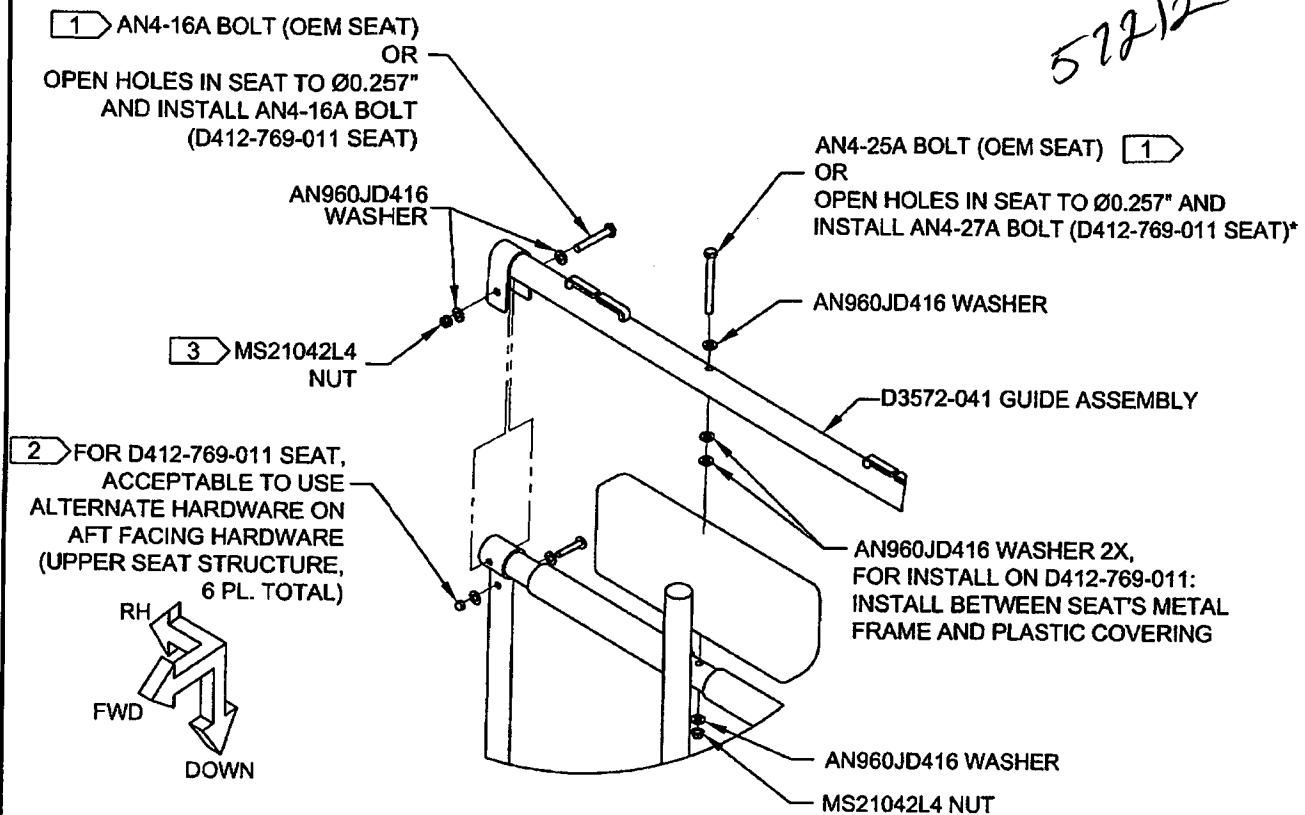
**FIGURE 4.8. SHOULDER BELT INSTALLATION**  
**FIGURE 25.12 D412-702-045A/-045B 4-MAN 3-POINT AFT FACING SHOULDER HARNESS KIT**

CANADA	
DEPARTMENT OF TRANSPORT	
AIRCRAFT CERTIFICATION	
BRANCH	
DAO # 01-O-01	
APPROVED	
BY:	<i>[Signature]</i>
D. SHEPHERD (DE # 02)	
DATE:	10.01.13
CERT. NO.:	SH04-7
ISSUE NO.:	3

DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD	
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. C
MFG. APPR.	N/A	DSI 9469	SHEET 3 OF 5
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	AFT-FACING SEAT UPDATE	
DATE	10.01.13	NTS	

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51212



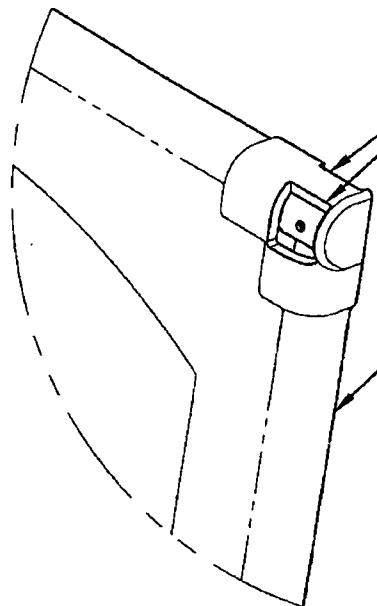
**DETAIL J: D3572-041 INSTALLATION**  
(RH SHOWN, LH OPPOSITE)

- 1 ACCEPTABLE TO USE LONGER/SHORTER AN4 BOLTS, ADD ADDITIONAL AN960JD416 WASHERS, OR SUBSTITUTE AN960JD416L WASHERS TO ENSURE 1.5-2 THREADS IN SAFETY
- 2 ACCEPTABLE TO USE MS51865-6C AS ALTERNATE NUT (6 PLACES TOTAL PER D412-769-011 SEAT KIT). IF ALT NUT IS USED, ADD AN960JD10/10L WASHER AS REQD (HEAD BOLT SIDE) TO ENSURE PROTRUDING THREADS MEASURE 0.160 MIN, 0.190 MAX. (BEFORE NUT INSTALLATION)
- 3 ACCEPTABLE TO USE MS51865-8C AS ALTERNATE NUT (2 PLACES TOTAL PER D412-769-011 SEAT KIT). IF ALT NUT IS USED, ADD AN960JD416/416L WASHER AS REQD (HEAD BOLT SIDE) TO ENSURE PROTRUDING THREADS MEASURE 0.200 MIN, 0.250 MAX. (BEFORE NUT INSTALLATION)

CANADA	
DEPARTMENT OF TRANSPORT	
AIRCRAFT CERTIFICATION	
BRANCH	
DAO # 01-O-01	
APPROVED	
BY:	D. SHEPHERD (DE # 02)
DATE:	10.01.13
CERT. NO.:	SH04-7
ISSUE NO.:	3

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. C
MFG. APPR.	N/A	DSI 9469	SHEET 4 OF 5
APPROVED		TITLE	SCALE
DE APPR.		AFT-FACING SEAT UPDATE	
DATE	10.01.13	NTS	

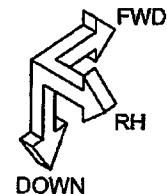
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CUT 1.13" WIDE (APPROX.) SLOTS  
IN PLASTIC SEAT BACKING TO FIT  
TABS ON D3572-041 BAR. IT IS  
ALSO ACCEPTABLE TO REMOVE  
ENTIRE CORNER IF PREFERRED.

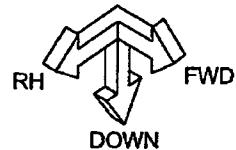
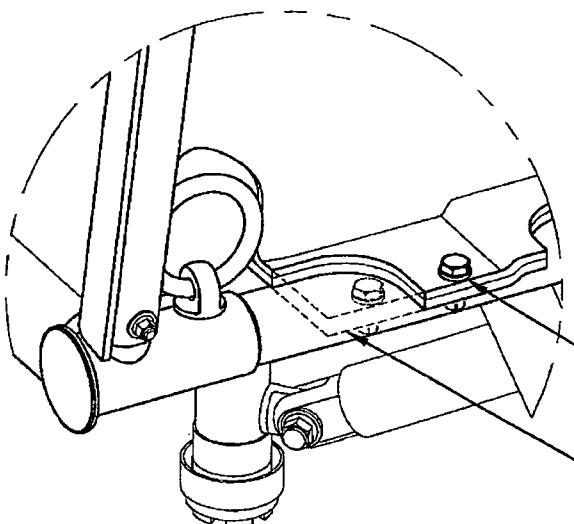
57212

PLASTIC SEAT BACKING  
REF



#### DETAIL R

VIEW LOOKING AT FRONT OF SEAT BACKING, TOP-RH CORNER SHOWN (TOP-LH CORNER SIMILAR),  
FOR INSTALL ON D412-769-011 ONLY



RELOCATE AN4 BOLTS SECURING  
SEAT PLASTIC AS REQ'D TO ALLOW  
SEAT TRIMMING

TRIM SEAT PLASTIC AS  
REQ'D TO CLEAR HARNESS  
BRACKETS

#### DETAIL S

VIEW LOOKING AT REAR OF SEAT, BOTTOM-RH CORNER SHOWN (BOTTOM-LH CORNER SIMILAR),  
FOR INSTALL ON D412-769-011 ONLY

CANADA	
DEPARTMENT OF TRANSPORT	
AIRCRAFT CERTIFICATION	
BRANCH	
DAO # 01-O-01	
APPROVED	
BY:	<i>[Signature]</i>
D. SHEPHERD (DE # 02)	
DATE:	10.01.13
CERT. NO.:	SH04-7
ISSUE NO.:	3

DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD	
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. C
MFG. APPR.	<i>[Signature]</i>	DSI 9469	SHEET 5 OF 5
APPROVED	<i>[Signature]</i>	TITLE	
DE APPR.	<i>[Signature]</i>	AFT-FACING SEAT UPDATE	
DATE	10.01.13	SCALE	
NTS			

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